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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/004,061 10/31/2001		Frederick W. Giacobbe	25184-P033US / S5648	6704	
*	590 09/12/2003			····	
JEFFREY L. WENDT, ESQ. 600 TOWN CENTER ONE			EXAMINER		
1450 LAKE RO	OBBINS DRIVE		RAGONESE, A	RAGONESE, ANDREA M	
THE WOODLANDS, TX 77380			ART UNIT	PAPER NUMBER	
			3749	7	
			DATE MAILED: 09/12/2003	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

. ,				$A \wedge A \wedge A = A \wedge A \wedge A = A \wedge A \wedge A \wedge A = A \wedge A \wedge$				
		Application No.	Applicant(s)					
Office Action Summary		10/004,061	GIACOBBE, FRE	GIACOBBE, FREDERICK W.				
		Examiner	Art Unit					
		Andrea M. Ragonese						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.7 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a rep of period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statuted the period by the Office later than three months after the mailing adaptent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, ly within the statutory minimur will apply and will expire SIX (e, cause the application to bec.	may a reply be timely filed  n of thirty (30) days will be considered time (6) MONTHS from the mailing date of this of the MANDONED (35 U.S.C. § 133).	ely. communication.				
1)⊠	Responsive to communication(s) filed on 31	<u>October 2001</u> .						
2a)□	This action is FINAL. 2b)⊠ Th	nis action is non-final	,					
3)□	Since this application is in condition for allow	ance except for form	al matters, prosecution as to t	he merits is				
•	closed in accordance with the practice under ion of Claims		39 C.D. 11, 433 O.G. 213.					
•	Claim(s) 1-76 is/are pending in the application							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
6)□	Claim(s) is/are rejected.							
-	Claim(s) is/are objected to.							
,	Claim(s) <u>1-76</u> are subject to restriction and/or	election requirement	•					
	ion Papers							
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
141	• • • • • • • • • • • • • • • • • • • •							
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
<i>,</i> —	•							
Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
۵)	1. Certified copies of the priority documen	ts have been receive	d.					
	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>								
Attachmen								
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 No	erview Summary (PTO-413) Paper N stice of Informal Patent Application (P ner:					

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## **DETAILED ACTION**

## Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-61, drawn to heat transfer fluid mixture, classified in class 252, subclass 71.
- II. Claims 62-64, drawn to a method of improving cooling of an object with a gas mixture, classified in class 34, subclass 428.
- III. Claims 65-66, drawn to a method of improving heating of an object with a gas mixture, classified in class 34, subclass 487.
- IV. Claims 67-76, drawn to a method of making a heat transfer fluid, classified in class 252, subclass 71.
- 2. The inventions are distinct, each from the other because of the following reasons:
  - Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the product as claimed can be used in a materially different process of using that product, such as heating an object instead of cooling that object.
  - Inventions I and III are related as product and process of use. The inventions
    can be shown to be distinct if either or both of the following can be shown: (1) the
    process for using the product as claimed can be practiced with another materially

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different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the product as claimed can be used in a materially different process of using that product, such as cooling an object instead of heating that object.

- Inventions IV and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the process as independently claimed can be used to make another and materially different product, such as a heat transfer fluid consisting of at least one light gas and at least one heavy gas, where the heavy gas has a molecular weight that is only slighter greater, but less than a factor of two greater, than the molecular weight of the light gas.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Andrea M. Ragonese** whose telephone number is **(703) 306-4055**. The examiner can normally be reached on Monday through Thursday from 8 am until 4 pm ET.

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- 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira S. Lazarus can be reached on (703) 308-1935. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.
- 6. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

amr

September 11, 2003

Supervisory Par Examiner

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